APPLICANT: CHRISTOPHER D. KOCH ET AL.
TITLE: PASSIVE OPTICAL NETWORK ADDRESS ASSOCIATION RECOVERY
ATTORNEY/AGENT: STEVEN J. SHUMAKER
REG. NO. 36,275 TELEPHONE: 651.735.1100
DOCKET NO.: 1034-004US01 SHEET 1 OF 6

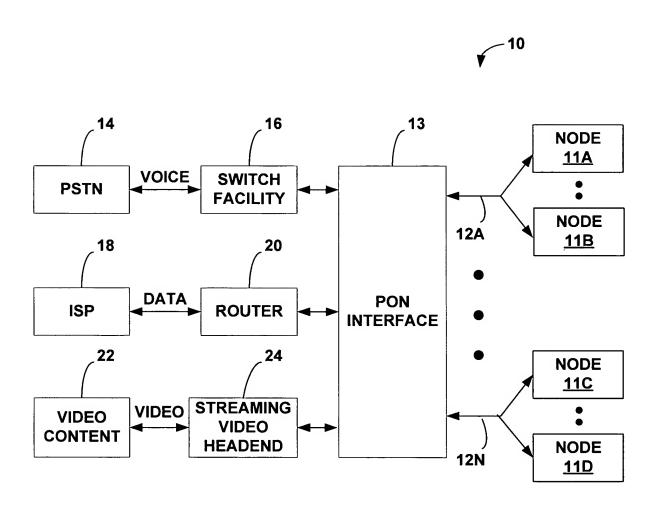


FIG. 1

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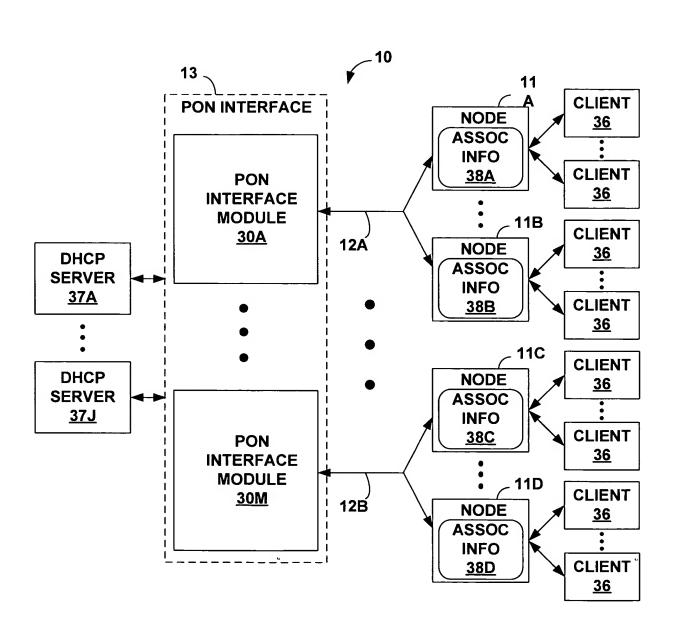


FIG. 2

APPLICANT: CHRISTOPHER D. KOCH ET AL.

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IP ADDRESS	MAC ADDRESS	LEASE TIME
192.122.15.154	00-B0-D0-A6-8E-6D	1500
192.122.15.129	00-01-02-5F-B0-42	400
192.122.15.30	00-CD-H3-55-04-BB	800

191.122.15.240 00-09-C4-06-B8-2F 1200

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SHEET 4 OF 6

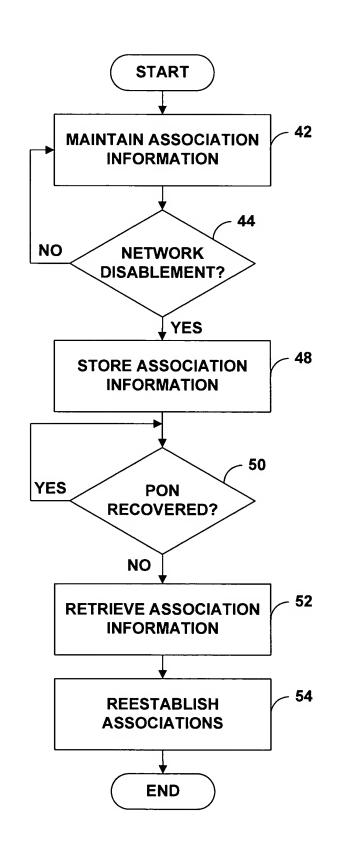


FIG. 4

APPLICANT: CHRISTOPHER D. KOCH ET AL. TITLE: PASSIVE OPTICAL NETWORK ADDRESS ASSOCIATION RECOVERY ATTORNEY/AGENT: STEVEN J. SHUMAKER REG. NO. 36,275 TELEPHONE: 651.735.1100 DOCKET NO.: 1034-004US01 SHEET 5 OF 6 **START 55 ASSOCIATE ADDRESS** WITH CLIENT 56 **ARP QUERY FOR IP ADDRESS** - 58 NO **RECEIVE ARP RESPONSE?** YES 62 **MAINTAIN ASSOCIATION** - 66 64 DHCP **YES MODIFICATION MODIFY ASSOCIATION MESSAGES?** NO 68 NO **LEASE EXPIRED?** YES 60 **CANCEL ASSOCIATION END** FIG. 5

APPLICANT: CHRISTOPHER D. KOCH ET AL.

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